Claims

1-9.   (Cancelled)

10.   (Original) A method for providing a transaction layer for a module having at least one node connected to a serial bus that configures a link device for each of said at least one nodes comprising:

　　detecting a link driver;

　　receiving capabilities of said link driver;

　　generating a link driver configuration for said link driver from said capabilities of said driver; and

　　loading said link driver configuration into said link driver.

11.   (Previously presented) The method of claim 10 further comprising querying said link driver for said capabilities.

12.   (Previously presented) The method of claim 11 further comprising receiving said capabilities of said link driver from said link driver.

13.   (Previously presented) The method of claim 10 further comprising storing said capabilities of said link driver.

14.   (Previously presented) The method of claim 13 wherein storing said capabilities comprises:

　　generating a node in a linked list for said link driver; and

　　storing said capabilities of said link driver in a data field of said node.

15.   (Previously presented) The method of claim 10 further comprising receiving configuration information for said link driver.

16.   (Previously presented) The method of claim 15 wherein generating said link driver configuration comprises generating said link driver configuration from said capabilities and said configuration information.

17.   (Previously presented) The method of claim 15 further comprising storing said configuration data.

18.   (Original) The method of claim 17 further comprising:
        generating a node in a linked list for said link driver; and
        storing said configuration information of said link driver in a data field of said node.

19.   (Previously presented) The method of claim 10 further comprising receiving an input of user defined configuration data for said link driver.

20.   (Previously presented) The method of claim 19 wherein generating said link driver configuration comprises generating said link driver configuration from said capabilities and said user defined configuration data.

21.   (Original) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to provide a transaction layer for a module having at least one node connected to a serial bus that configures a link device for each of said at least one nodes that performs a method comprising:
        detecting a link driver;
        receiving capabilities of said link driver;
        generating a link driver configuration for said link driver from said capabilities of said driver; and
        loading said link driver configuration into said link driver.

22.   (Previously presented) The program storage device of claim 21 wherein said method further comprises querying said link driver for said capabilities.

23.   (Previously presented) The program storage device of claim 22 wherein said method further comprises receiving said capabilities of said link driver from said link driver.

24.   (Previously presented) The program storage device of claim 21 wherein said method further comprises storing said capabilities of said link driver.

25.   (Original) The program storage device of claim 24 wherein said step of storing said capabilities comprises:

    generating a node in a linked list for said link driver; and

    storing said capabilities of said link driver in a data field of said node.

26.   (Previously presented) The program storage device of claim 21 wherein said method further comprises receiving configuration information for said link driver.

27.   (Previously presented) The program storage device of claim 26 wherein generating said link driver configuration comprises generating said link driver configuration from said capabilities and said configuration information.

28.   (Previously presented) The program storage device of claim 27 wherein said method further comprises storing said configuration data.

29.   (Original) The program storage device of claim 28 wherein said method further comprises:

    generating a node in a linked list for said link driver; and

    storing said configuration information of said link driver in a data field of said node.

30.   (Previously presented) The program storage device of claim 21 wherein said method further comprises receiving an input of user defined configuration data for said link driver.

31.   (Previously presented) The program storage device of claim 30 wherein generating said link driver configuration comprises generating said link driver configuration from said capabilities and said user defined configuration data.